## MD Series

SMD Low Profile High Current Molded Inductor

Size 1050

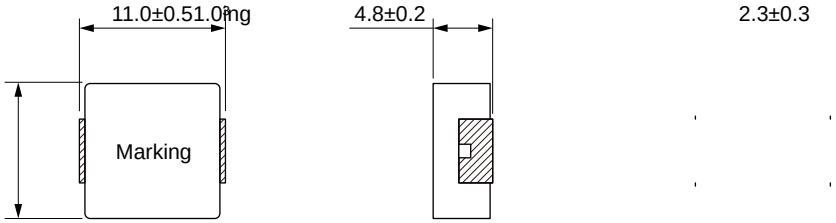
### CHARACTERISTICS

- Molded type
- High satura on current due to CIP material
- Nature air gap and no acous c noise
- Di erent sizes available
- Quan ty: 500pcs

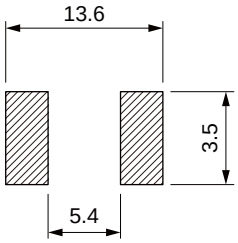
### APPLICATION

- High current DC/DC converter
- LC filter

## Dimensions: [mm]




## Land Pattern: [mm]




## Electrical Properties:

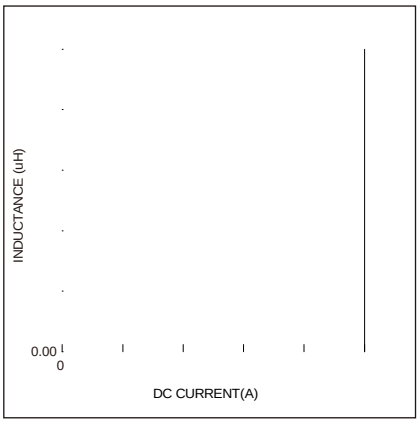
| Part No | Inductance @ 100KHz/1V (µH) | Tolerance | Temperature Rise Current Typ. (A) | Satura on current Typ. (A) | DC Resistance Typ. (mΩ) | DC Resistance Max. (mΩ) |
|---|---|---|---|---|---|---|
| MD1050-R22M | 0.22 | ±20% | 45.0 | 70.0 | 0.45 | 0.50 |
| MD1050-R56M | 0.56 | ±20% | 26.5 | 43.0 | 1.30 | 1.50 |
| MD1050-1R0M | 1.00 | ±20% | 22.0 | 30.0 | 2.80 | 3.50 |
| MD1050-1R5M | 1.50 | ±20% | 19.0 | 27.0 | 3.50 | 4.10 |
| MD1050-2R2M | 2.20 | ±20% | 16.0 | 24.0 | 5.40 | 6.00 |
| MD1050-3R3M | 3.30 | ±20% | 14.0 | 22.0 | 9.00 | 10.4 |
| MD1050-4R7M | 4.70 | ±20% | 13.0 | 19.0 | 10.0 | 12.5 |
| MD1050-5R6M | 5.60 | ±20% | 10.0 | 16.0 | 14.0 | 16.8 |
| MD1050-6R8M | 6.80 | ±20% | 9.50 | 15.0 | 16.5 | 21.0 |
| MD1050-8R2M | 8.20 | ±20% | 9.00 | 14.5 | 18.5 | 24.0 |
| MD1050-100M | 10.0 | ±20% | 8.00 | 13.5 | 25.0 | 29.0 |
| MD1050-150M | 15.0 | ±20% | 5.50 | 9.50 | 37.0 | 45.0 |
| MD1050-220M | 22.0 | ±20% | 5.00 | 9.00 | 50.0 | 60.0 |
| MD1050-330M | 33.0 | ±20% | 4.30 | 7.50 | 80.0 | 92.0 |
| MD1050-470M | 47.0 | ±20% | 3.80 | 6.50 | 125 | 145 |

Opera ng temperature : -40℃ ~ +125℃

Temperature rise current : The actual value of DC current when the temperature rise is ΔT40℃

Satura on Current will cause L to drop approximately 30%

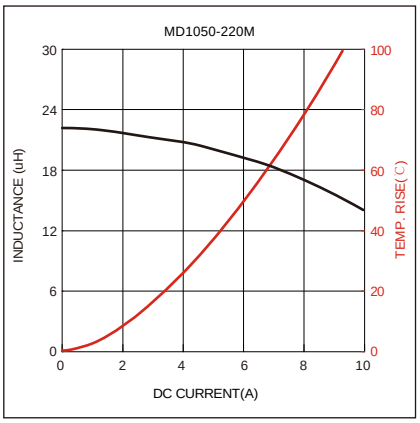
# Typical Electrical Characteristics:

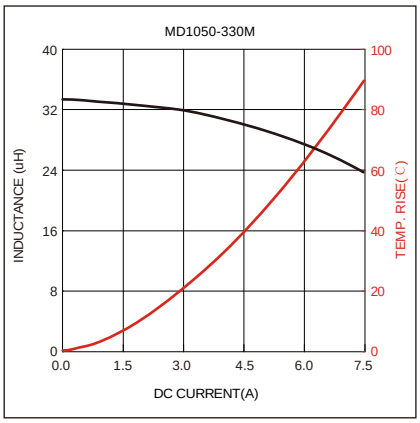


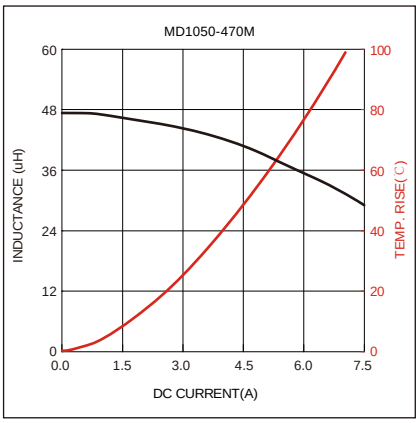



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# Typical Electrical Characteristics:






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